We claim:

1. A transfer mechanism for transferring a load between a first upper conveyor and a second lower conveyor, comprising:

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first and second spaced, generally parallel rails having first ends pivotably mounted to the upper conveyor and opposite second ends, the rails movable between a first position wherein the rails are generally co-planer with the upper conveyor and a second position wherein the rails extend from the upper conveyor at a predetermined angle; and

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a transfer conveyor having a first end pivotably mounted to the second ends of the rails and a second opposite end, the transfer conveyor movable between a first position wherein the transfer conveyor is generally co-planer with the rails and a second position wherein the transfer conveyor is at a predetermined angle to the rails such that transfer conveyor is generally co-planer with the lower conveyor when the rails and the transfer conveyor are in the second positions.

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2. The transfer mechanism of claim 1 further comprising a rail locking mechanism movable between a lock position for locking the rails in the first position and a release position for allowing the rails to pivot between the first and second positions.

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3. The transfer mechanism of claim 1 further comprising a transfer conveyor locking mechanism movable between a lock position for locking the transfer conveyor in the first position and a release position for allowing the transfer conveyor to pivot between the first and second positions.

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4. The transfer mechanism of claim 1 further comprising a counterweight operatively connected to at least one of the rails for urging the rails towards the first position.

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- 5. The transfer mechanism of claim 1 further comprising a counterweight operatively connected to the transfer conveyor for urging the transfer conveyor towards the first position.
- 6. The transfer mechanism of claim 1 further comprising a dampening mechanism operatively connected to at least one of the rails for controlling the rate of movement of the rails between the first and the second positions.
 - 7. The transfer mechanism of claim 1 further comprising a load restraining mechanism operatively connected to the upper conveyor, the load restraining mechanism movable between a first position for retaining the load on the upper conveyor and a second position for allowing the load to be axially slid between the rails.
 - 8. The transfer mechanism of claim 1 wherein the transfer conveyer includes a load stopping member projecting from the second end thereof, the load stopping member preventing the load from sliding axially off the transfer conveyer.
- 9. The transfer mechanism of claim 1 wherein the transfer conveyor includes a plurality of rollers extending in a direction generally perpendicular to the rails, the rollers facilitating the positioning of the load onto and off of the transfer conveyor.

10. A transfer mechanism for transferring a load between an upper conveyor extending along a first axis and a lower conveyor extending along a second axis, vertically displaced from the first axis, the transfer mechanism comprising:

a support member having a first end adjacent to and pivotably mounted to the upper conveyor and an opposite second end, the support member movable between a first position wherein the support member is generally parallel to the first axis and a second position wherein the support member is at a predetermined angle to the first axis; and

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a transfer deck having a first end pivotably mounted to the second end of the support member and a second opposite end, the transfer deck movable between a first position wherein the transfer deck is co-planer with the support member and a second position wherein the transfer deck is at a predetermined angle to the support member.

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11. The transfer mechanism of claim 10 wherein the transfer deck extends generally along the second axis when the support member and the transfer deck are in the second positions.

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12. The transfer mechanism of claim 10 further comprising:

a support member locking mechanism movable between a lock position for locking the support member in the first position and a release position for allowing the support member to pivot between the first and second positions; and

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a transfer deck locking mechanism movable between a lock position for locking the transfer deck in the first position and a release position for allowing the transfer deck to pivot between the first and second positions. 13. The transfer mechanism of claim 12 further comprising a support member locking mechanism biasing element for urging the support member locking mechanism towards the lock position; and a transfer deck locking mechanism biasing element for urging the transfer deck locking mechanism towards the lock position.

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- 14. The transfer mechanism of claim 10 further comprising:
- a first counterweight operatively connected to the support member for urging the support member towards the first position; and

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a second counterweight operatively connected to the transfer deck for urging the transfer deck towards the first position.

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15. The transfer mechanism of claim 10 further comprising a dampening mechanism operatively connected to the support member for controlling the rate of movement of the support member between the first and the second positions.

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16. The transfer mechanism of claim 10 further comprising a load restraining mechanism operatively connected to the upper conveyor, the load restraining mechanism movable between a first position for retaining the load on the upper conveyor and a second position for allowing the load to be axially slid adjacent the support member.

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- 17. A transfer mechanism for transferring a load between an upper conveyor extending along a first axis and a lower conveyor extending along a second axis, vertically displaced from the first axis, the transfer mechanism comprising:
- first and second spaced, generally parallel rails having first ends adjacent to and pivotably mounted to the upper conveyor and opposite second ends, the rails movable between a first position wherein the rails are generally parallel to the first axis and a second position wherein the rails are at a predetermined angle to the first axis;

a rail locking mechanism movable between a lock position for locking the rails in the first position and a release position for allowing the rails to pivot between the first and second positions;

a first counterweight operatively connected to at least one of the rails for urging the rails towards the first position;

a transfer deck having a first end pivotably mounted to the second ends of the rails and a second opposite end, the transfer deck movable between a first position wherein the transfer deck is disposed between the rails and a second position wherein the transfer deck is at a predetermined angle to the rails;

a transfer deck locking mechanism movable between a lock position for locking the transfer deck in the first position and a release position for allowing the transfer deck to pivot between the first and second positions; and

- a second counterweight operatively connected to the transfer deck for urging the transfer deck towards the first position.
- 18. The transfer mechanism of claim 17 wherein the transfer deck intersects the second axis when the rails and the transfer deck are in the second positions.

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- 19. The transfer mechanism of claim 17 further comprising a dampening mechanism operatively connected to at least one of the rails for controlling the rate of movement of the rails between the first and the second positions.
- 20. The transfer mechanism of claim 17 further comprising a load restraining mechanism operatively connected to the upper conveyor, the load restraining mechanism movable between a first position for retaining the load on the upper conveyor and a second position for allowing the load to be axially slid between the rails.

21. The transfer mechanism of claim 17 further comprising a rail locking mechanism biasing element for urging the rail locking mechanism towards the lock position; and a transfer deck locking mechanism biasing element for urging the transfer

deck locking mechanism towards the lock position.